

What is claimed is:

1. A display panel driver for being supplied with digital data for displaying red, green, and blue on a display panel having display elements, correcting differences between light-emission characteristics of the display elements for red, green, and blue using m gradation voltages for each of red, green, and blue, and generating and outputting drive voltages for data lines of the display panel, said display panel driver comprising:

voltage generating means for generating reference voltages, said voltage generating means having a plurality of resistors connected in series between a first voltage power supply which supplies high-voltages and a second power supply which supplies low-voltage, and n reference voltage terminals, which are more than said m gradation voltages, connected to respective junctions at which said resistors are connected; and

voltage selecting means for selecting and outputting m red gradation voltages, m green gradation voltages, and m blue gradation voltages from the reference voltages supplied from said n reference voltage terminals.

2. A display panel driver according to claim 1, wherein said resistors of the voltage generating means have respective resistances set to the same value.

3. A display panel driver according to claim 1, wherein said voltage selecting means comprises:

n reference voltage input lines extending in a first direction and connected to said voltage generating means;

5 m red gradation voltage output lines, m green gradation voltage output lines, and m blue gradation voltage output lines, all extending in a second direction perpendicular to said first direction; and

connecting means disposed at points of intersection between lines in said first direction and lines in said second direction, for selectively
10 connecting red gradation voltage output lines to one of the n reference voltage input lines, selectively connecting green gradation voltage output lines to one of said reference voltage input lines, and selectively connecting blue gradation voltage output lines to one of said reference voltage input lines.

15 4. A display panel driver according to claim 3, wherein said connecting means comprises vias disposed at the points of intersection between the lines in said first direction and the lines in said second direction and interconnecting the lines in said first direction and the lines in said second direction.

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5. A display panel driver according to claim 3, wherein said connecting means comprises:

switches disposed at the points of intersection between the lines in said first direction and the lines in said second direction; and

a switch control circuit for selecting and rendering conductive one of n switches connected to each of said red gradation voltage output lines, selecting and rendering conductive one of n switches connected to each of said green gradation voltage output lines, and selecting and rendering conductive one of n switches connected to each of said blue gradation voltage output lines.

10 6. A display panel driver for being supplied with digital data for displaying red, green, and blue on a display panel having display elements, correcting differences between light-emission characteristics of the display elements for red, green, and blue using m gradation voltages for each of red, green, and blue, and generating and outputting drive voltages for data lines
15 of the display panel, said display panel driver comprising:

voltage generating means for generating reference voltages, said voltage generating means having a plurality of resistors connected in series between a first voltage power supply which supplies high-voltages and a second voltage power supply which supplies low-voltages, and n reference
20 voltage terminals, which are more than said m gradation voltages, connected to respective junctions at which said resistors are connected;

voltage selecting means for selecting and outputting m red gradation voltages, m green gradation voltages, and m blue gradation voltages from the reference voltages supplied from said n reference voltage terminals;

5 red digital-to-analog converters each for selecting and outputting one of said m red gradation voltages based on digital input data supplied thereto;

 green digital-to-analog converters each for selecting and outputting one of said m green gradation voltages based on digital input data
10 supplied thereto; and

 blue digital-to-analog converters each for selecting and outputting one of said m blue gradation voltages based on digital input data supplied thereto.

15 7. A display panel driver according to claim 6, wherein said voltage selecting means comprises;

 red voltage selecting means associated respectively with said red digital-to-analog converters, for supplying m red gradation voltages selected from said n reference voltages;

20 green voltage selecting means associated respectively with said green digital-to-analog converters, for supplying m green gradation voltages selected from said n reference voltages; and

blue voltage selecting means associated respectively with said blue digital-to-analog converters, for supplying m blue gradation voltages selected from said n reference voltages.